EXHIBIT B

1. (Previously amended) A method of preparing siliceous materials comprising combining an organic polyol silane precursor with one or more additives under conditions suitable for hydrolysis and condensation of the precursor to a siliceous material, wherein the one or more additives are selected from one or more water-soluble polymers and one or more trifunctional silanes of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide Si-OH groups; and R⁴ is group that is not hydrolyzed under normal sol-gel conditions, wherein the conditions suitable for hydrolysis and condensation of the precursor to a siliceous material comprise combining the organic polyol silane precursor with the one or more additives at a pH in the range of about 4 to about 11.5.

- 2. (Original) The method according to claim 1, wherein the one or more additives are water soluble polymers selected from one or more of polyethers, polyalcohols, polysaccharides, poly(vinyl pyridine), polyacids, polyacrylamides and polyallylamine.
- 3. (Original) The method according to claim 2, wherein the one or more additives are water soluble polymers selected from one or more of polyethylene oxide (PEO), polyethylene glycol (PEG), amino-terminated polyethylene oxide (PEO-NH₂), amino-terminated polyethylene glycol (PEG-NH₂), polypropylene glycol (PPG), polypropylene oxide (PPO), polypropylene glycol bis(2-amino-propyl ether) (PPG-NH₂), polyvinyl alcohol, poly(acrylic acid), poly(vinyl pyridine), poly(N-isopropylacrylamide) (polyNIPAM) and polyallylamine (PAM).

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- 4. (Original) The method according to claim 3, wherein the one or more additives are water soluble polymers selected from one or more of PEO, PEO-NH₂, PEG, PPG-NH₂, polyNIPAM and PAM.
- 5. (Original) The method according to claim 3, wherein the one or more additives are water soluble polymers selected from one or more of PEO, PEO-NH₂ and polyNIPAM.
- (Original) The method according to claim 1, wherein the one or more additives is a mixture of water soluble polymers,
- 7. (Original) The method according to claim 6 wherein the mixture of water soluble polymers comprises PEO and PEO-NH₂.
- 8. (Original) The method according to claim 5, wherein the one or more additives is PEO.
- (Original) The method according to claim 8, wherein the PEO has a molecular weight that is greater than about 10,000 g/mol.
- 10. (Original) The method according to claim 9, wherein the PEO is used at a concentration of greater than about 0.005 g/mL of final solution.
- 11. (Original) The method according to claim 5, wherein the one or more additives is PEO-NH₂.
- 12. (Original) The method according to claim 11, wherein the PEO-NH $_2$ has a molecular weight that is greater than about 3,000 g/mol and is used at a concentration of about 0.005 g/mL of final solution.

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- 13. (Original) The method according to claim 5, wherein the one or more additives is poly(N-isopropylacrylamide).
- 14. (Original) The method according to claim 13, wherein the poly(N-isopropylacrylamide) has a molecular weight that is about 10,000 g/mol and is used at a concentration of about 0.005 g/mL of final solution.
- 15. (Original) The method according to claim 1, wherein the one or more additives is a compound of Formula I.
- 16. (Original) The method according to claim 15, wherein OR¹, OR² and OR³ are the same or different and are derived from organic di- or polyols.
- 17. (Original) The method according to claim 16, wherein OR¹, OR² and OR³ are the same or different and are derived from sugar alcohols, sugar acids, saccharides, oligosaccharides or polysaccharides.
- 18. (Previously amended) The method according to claim 16, wherein OR¹, OR² and OR³ are the same or different and are derived from allose, altrose, glucose, mannose, gulose, idose, galactose, talose, ribose, arabinose, xylose, lyxose, threose, erythrose, glyceraldehydes, sorbose, fructose, dextrose, levulose, sorbitol, sucrose, maltose, cellobiose, lactose, dextran (500-50,000 MW), amylose, pectin, glycerol, propylene glycol or trimethylene glycol.
- 19. (Original) The method according to claim 18, wherein OR¹, OR² and OR³ are the same or different and are derived from glycerol, sorbitol, maltose, trehalose, glucose, sucrose, amylose, pectin, lactose, fructose, dextrose and dextran.
- 20. (Original) The method according to claim 18, wherein OR¹, OR² and OR³ are the same or different and are derived from glycerol, sorbitol, maltose or dextran.

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- 21. (Original) The method according to claim 15, wherein OR^1 , OR^2 and OR^3 are the same or different and are selected from C_{1-4} alkoxy, aryloxy and arylalkyleneoxy.
- 22. (Original) The method according to claim 21, wherein wherein OR¹, OR² and OR³ are the same or different and are selected from C₁₋₄alkoxy, phenyoxy, naphthyloxy and benzyloxy.
- 23. (Original) The method according to claim 22, wherein wherein OR¹, OR² and OR³ are the same or different and are selected from C₁₄alkoxy.
- 24. (Original) The method according to claim 23, wherein OR¹, OR² and OR³ are all ethoxy.
- 25. (Original) The method according to claim 15, wherein R⁴ is selected from the group consisting of:

$$\begin{array}{c} \text{polyol-(linker)-;}\\ \text{polymer-(linker)_{n^-}; and}\\ \\ QR^1\\ R^2Q-Si-(linker)_n-\text{polymer-(linker)_n-}\\ QR^3 \end{array}$$

wherein n is 0-1.

28. (Original) The method according to claim 25, wherein the polyol is an organic dior polyol. - 5-

- 27. (Original) The method according to claim 26, wherein the polyol is selected from the group consisting of a sugar alcohol, sugar acid, saccharide, oligosaccharide and polysaccharide.
- 28. (Original) The method according to claim 27, wherein the polyol is a selected from the group consisting of allose, altrose, glucose, mannose, gulose, idose, galactose, talose, ribose, arabinose, xylose, lyxose, threose, erythrose, glyceraldehydes, sorbose, fructose, dextrose, levulose, sorbitol, sucrose, maltose, cellobiose, lactose, dextran, (500-50,000 MW), amylose, pectin, glycerol, propylene glycol and trimethylene glycol.
- 29. (Original) The method according to claim 28, wherein the polyol is selected from the group consisting of glycerol, sorbitol, maltose, trehalose, glucose, sucrose, amylose, pectin, lactose, fructose, dextrose and dextran.
- 30. (Previously amended) The method according to claim 29, wherein the polyol is selected from the group consisting of glycerol, sorbitol, glucose, maltose and dextrose.
- 31. (Original) The method according to claim 25 wherein the polymer is a water soluble polymer.
- 32. (Original) The method according to claim 31, wherein the polymer is selected from the group consisting of polyethylene oxide (PEO), polyethylene glycol (PEG), amino-terminated polyethylene oxide (PEO-NH₂), amino-terminated polyethylene glycol (PEG-NH₂), polypropylene glycol (PPG), polypropylene oxide (PPO), polypropylene glycol bis(2-amino-propyl ether) (PPG-NH₂), polyvinyl alcohol, poly(acrylic acid), poly(vinyl pyridine), poly(N-isopropylacrylamide) (polyNIPAM) and polyallylamine (PAM).

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- 33. (Original) The method according to claim 32, wherein the water soluble polymer is selected from the group consisting of PEO, PEO-NH₂, PEG, PPG-NH₂, polyNIPAM and PAM.
- 34. (Original) The method according to claim 33, wherein the polymer is PEO.
- 35. (Original) The method according to claim 25, wherein the linker is selected from the group consisting of C_{1-20} alkylene, C_{1-20} alkenylene, organic ethers, thioethers, amines, esters, amides, urethanes, carbonates and ureas.
- 36. (Original) The method according to claim 25, wherein the compound of Formula I is selected from one or more of:

GluconamideSi (Compound 1);

MaltonamideSi (Compound 2);

DextronamideSi (Compound 3);

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~4-5, average MW 200 (Compound 5a);

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~13, average MW 600 (Compound 5b);

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~44, average MW 2000 (Compound 5c); and

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~227, average MW 10,000 (Compound 5d).

- 37. (Original) The method according to claim 1, wherein the organic polyol silane precursor is selected from the group consisting of diglycerylsilane (DGS), monosorbitylsilane (MSS), monomaltosylsilane (MMS), dimaltosylsilane (DMS) and dextran-based silane (DS).
- 38. (Currently Amended) The method according to claim 1, wherein the conditions suitable for the hydrolysis and condensation of the precursor to a siliceous material include a pH in the range of about 4-11.5 comprise combining the organic polvol silane precursor with the one or more additives in aqueous solutions and with optional sonication to assist in dissolution.

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- 39. (Currently amended) A method of preparing siliceous materials with low shrinkage characteristics comprising:
 - (a) combining an aqueous solution of one or more compounds of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide Si-OH groups; and R⁴ is group that is not hydrolyzed under normal sol-gel conditions, with an aqueous solution of an organic polyol silane precursor;

- (b) adjusting the pH of the solution in (a) to about 4-11.5;
- (c) allowing the solution of (b) to gel;
- (d) aging the gel of (c); and
- (e) drying the aged gel in air.
- 40. (Original) A siliceous material prepared using the method according to claim 1.
- 41. (Currently amended) A method of preparing monolithic silica materials comprising combining an organic polyol silane precursor with one or more additives selected from one or more water-soluble polymers and one or more compounds of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide Si-OH groups, R⁴ is group

$$QR^1 \\ R^2O-Si - (linker)_n - polymer - (linker)_n - \\ selected from polymer-(linker)_n - and OR^3 \\ and n = 0-\\ 1, under conditions where a phase transition occurs before gelation, wherein the$$

conditions where a phase transition occurs before gelation comprise combining the

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organic polyol silane precursor with the one or more additives at a pH in the range of about 4 to about 11.5.

- 43. (Original) The method according to claim 42, wherein the linker group is a C_{1-4} alkylene group and n is 1.
- 44. (Original) The method according to claim 42, wherein OR^1 , OR^2 and OR^3 are the same and are selected from C_{1-4} alkoxy.
- 45. (Original) The method according to claim 42, wherein the polymer is PEO.
- 46. (Original) The method according to claim 41 wherein the compound of Formula I is selected from the group consisting of:

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~4-5, average MW 200 (Compound 5a);

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2$, p ~13, average MW 600 (Compound 5b);

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_{2_1}$ p ~44, average MW 2000 (Compound 5c); and

 $(CH_2CH_2O)_p[(EtO)_3Si(C_3H_6)]_2,\ p\ \text{\sim227, average MW 10,000 (Compound 5d)}.$

- 47. (Original) The method according to claim 41, wherein the water soluble polymer is selected from one or more of PEO, PEO-NH₂ and poly(NIPAM).
- 48. (Original) A meso/macroporous silica monolith prepared using the method according to claim 41.

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49. (Currently amended) A method of preparing siliceous materials comprising combining an organic polyol silane precursor, a biomolecule of interest and one or more additives under conditions suitable for the hydrolysis and condensation of the precursor to a siliceous material, wherein the one or more additives are selected from one or more water-soluble polymers and one or more trifunctional silanes of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide a Si-OH group; and R⁴ is group that is not hydrolyzed under normal sol-gel conditions, wherein the conditions suitable for hydrolysis and condensation of the precursor to a siliceous material comprise combining the organic polyol silane precursor, biomolecule and one or more additives at a pH in the range of about 4 to about 11.5.

- 50. (Original) A siliceous material comprising a biomolecule entrapped therein prepared using the method according to claim 49.
- 51. (Previously amended) A method for the quantitative or qualitative detection of a test substance that reacts with, binds to and/or whose reactivity is catalyzed by an active biological substance, wherein said biological substance is encapsulated within a siliceous material, comprising:
- (a) preparing the siliceous material comprising said active biological substance entrapped within a porous, silica matrix using a method according to claim 49;
- (b) bringing said biological-substance-containing siliceous material into contact with a gas or aqueous solution comprising the test substance; and
- (c) quantitatively or qualitatively detecting, observing or measuring the change in one or more characteristics in the biological substance entrapped within the siliceous

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material and/or, alternatively, quantitatively or qualitatively detecting, observing or measuring the change in one or more characteristics in the test substance.

- 52. (Original) The method according to claim 51, wherein the change in one or more characteristics of the entrapped biological substance is qualitatively or quantitatively measured by spectroscopy, utilizing one or more techniques selected from UV, IR, visible light, fluorescence, luminescence, absorption, emission, excitation and reflection.
- 53. (Original) A method of storing a biologically active biological substance in a silica matrix, wherein the biological substance is an active protein or active protein fragment, wherein the silica matrix prepared using a method according to claim 49.
- 54. (Currently amended) A method of preparing a monolithic silica chromatographic column comprising placing a solution comprising an organic polyol silane precursor and one or more additives selected from one or more water-soluble polymers and one or more compounds of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide a Si-OH group; R⁴ is group

1, in a column under conditions suitable for a phase transition to occur before gelation, wherein the conditions suitable for a phase transition to occur before gelation comprise combining the organic polyol silane precursor with the one or more additives at a pH in the range of about 4 to about 11.5.

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- 55. (Previously amended) The method according to claim 54, wherein the solution further comprises one or more substances, which provide cationic sites that counterbalance an anionic charge of the silica to reduce non-selective interactions
- 56. (Currently amended) A chromatographic column comprising a silica monolith prepared by combining an organic polyol silane precursor and one or more additives selected from one or more water-soluble polymers and one or more compounds of Formula I:

wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide Si-OH groups; R⁴ is group

- 1, under conditions where a phase transition occurs before gelation, wherein the conditions suitable for a phase transition to occur before gelation comprise combining the organic polyol silane precursor with the one or more additives at a pH in the range of about 4 to about 11.5.
- 57. (Currently amended) A method of preparing a monolithic silica column having an active biomolecule entrapped therein comprising combining:
- a) a polyol-silane derived silica precursor,
- b) one or more additives selected from one or more water soluble polymers and one or more compounds of Formula I:

wherein OR1, OR2 and OR3 are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide Si-OH groups, R4 is group

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selected from polymer-(linker),- and

- 1; and
- c) a biomolecule;

under conditions wherein a phase separation occurs before gelation, wherein the conditions suitable for a phase transition to occur before gelation comprise combining the organic polyol silane precursor with the one or more additives at a pH in the range of about 4 to about 11.5.

58. (Original) The method according to claim 57, wherein the one or more additives is one or more water soluble polymers or one or more compounds of Formula I, wherein

$$OR^1$$
 R^2O-Si — $(linker)_n$ — $polymer$ — $(linker)_n$ —
 R^4 is OR^3

- 59. (Previously amended) The method according to claim 57, wherein the organic polyol silane silica precursor, one or more additives and biomolecules are also combined with a substance which provides cationic sites that counterbalance an anionic charge of the silica to reduce non-selective interactions.
- 60. (Original) A chromatographic column prepared using a method according to claim 57.
- 61. (Original) A method of performing immunoaffinity chromatography, sample cleanup, solid phase extraction or preconcentration of analytes, removal of unwanted contaminants, solid phase catalysis or frontal affinity chromatography comprising:
 - (a) applying a sample to a column according to claim 60: and
 - (b) performing immunoaffinity chromatography, sample cleanup, solid phase extraction or preconcentration of analytes, removal of unwanted contaminants, solid phase catalysis or frontal affinity chromatography.

62. (Previously amended) A method of preparing siliceous materials with enhanced protein stabilizing ability comprising combining an organic polyol silane precursor with one or more additives under conditions suitable for hydrolysis and condensation of precursor to a siliceous material, wherein the one or more additives is selected from one or more trifunctional silanes of Formula I:

wherein wherein OR¹, OR² and OR³ are the same or different and represent a group that is hydrolyzed under normal sol-gel conditions to provide a Si-OH group and R⁴ is polyol-(linker)-.

- 63. (Previously amended) The method according to claim 62, wherein the polyol in R^4 is derived from sugar alcohols, sugar acids, saccharides, oligosaccharides or polysaccharides.
- 64. (Original) The method according to claim 63, wherein the polyol in R⁴ is derived from allose, altrose, glucose, mannose, gulose, idose, galactose, talose, ribose, arabinose, xylose, lyxose, threose, erythrose, glyceraldehydes, sorbose, fructose, dextrose, levulose, sorbitol, sucrose, maltose, cellobiose, lactose, dextran (500-50,000 MVV), amylose, pectin, glycerol, propylene glycol or trimethylene glycol.
- 65. (Original) The method according to claim 64, wherein the polyol in R⁴ is derived from glycerol, sorbitol, maltose, trehalose, glucose, sucrose, amylose, pectin, lactose, fructose, dextrose ort dextran.
- 66. (Original) The method according to claim 65, wherein the polyol in R⁴ is derived from glycerol, sorbitol, glucose, maltose or dextran.

- 67. (Original) The method according to claim 66, wherein the polyol in R⁴ is derived from glucose or mattose.
- 68. (Previously amended) The method according to claim 62 wherein the one or more additives is GluconamideSi (Compound 1) and/or MattonamideSi (Compound 2).
- 69. (Original) The method according to claim 62, wherein the protein is a kinase, luciferase, or urease or is Factor Xa.
- 70. (Original) The method according to claim 69, wherein the protein is Src protein tyrosine kinase.
- 71. (Original) The method according to claim 62, further comprising combining the organic polyol silane precursor and one or more additives with a substrate for the protein to be entrapped.
- 72. (Original) The method according to claim 71, wherein the protein is a kinase and the substrate is a source of phosphate.
- 73. (Original) The method according to claim 72, wherein the substrate is ATP.
- 74. (Previously added) The method according to claim 59, wherein the substance which provides cationic sites that counterbalance an anionic charge of the silica to reduce non-selective interactions is aminopropyltriethoxysilane (APTES), PAM, PPG-NH₂ and/or PEG-NH₂.

EXHIBIT C

Evidence is provided below to demonstrate that DGS = TEOS; DGS = TEOS + glycerol; DGS = PGS; DGS = PGS + glycerol. In all cases, a head-to-head experiment was run using PEO of 10K MW. The experimental procedures are shown below.

As can be seen from the attached scanning electron microscopy (SEM) pictures, the DGS samples 1, 5, 6 exhibit macroporosity and (not shown) mesoporosity. The morphology of the structures varies, but is in all cases open. Sample 2 is not macroporous. Under these conditions, the gelation occurred prior to phase separation. In order to slow down gelation, one equivalent of glycerol was added while other conditions were kept constant. The retarded hydrolysis rate led phase separation occurring *prior* to gelation and a macroporous structure was achieved (sample 6). To more broadly show the effect of changing the rate, 1 equiv. of glycerol was added to all of DGS, TEOS and PGS systems (samples 5, 6, 7, 8 11 and 12). As can be clearly seen, under these conditions only DGS at either pH 5.5 or pH 11 led to macroporous structures, while TEOS and PGS did not.

The SEM pictures of TEOS derived silica show that macroporous structures are not formed: with glycerol present, a 2 phase system results that does not cure within 1 day.

PGS does not lead to macroporous silica, irrespective of the presence of glycerol.

Procedure: Sample 1: DGS (1.00 g, 4.71 mmol) was dissolved in H₂0 (1000 μL) at 0 °C with sonication for 20 min. An aqueous solution of HEPES buffer (1000 μL) at 50 mM, pH 5.5 (sample 1) (or pH 11 (sample 2)) containing 16% PEO (MW=10,000) (w/v) was added and mixed. The mixture was allowed to stand at room temperature to gel. Phase separation and gelation occurred after 2 min (sample 1) and 3 min (sample 2), respectively, to give an opaque hydrogel. The gel was aged at 4 °C overnight, followed by aging at room temperature for 2 days. After washing with H₂O (each time 10 mL x 5 times), and drying in air at room temperature for 1 week, an opaque xerogel was obtained. Samples 2 (pH 11), 5 and 6 were prepared similar to sample 1, reaction conditions are listed in Table 1. For 5 and 6, 1 equivalent of glycerol (to DGS) was added to DGS aqueous solution.

Sample 3: TEOS (0.98 g, 4.71 mmol) was mixed with H_2O (1000 μL) and sonicated at 0 °C for 20 min. An aqueous solution of HEPES buffer (1000 μL) at 50 mM, pH 5.5 (sample 3, pH 11, sample 4) containing 16% PEO (MW=10,000) (w/v) was added and stirred at room temperature for another 20 min. The mixture was allowed to stand at room temperature for 30 min, two solution layers formed and after 1 day there was a small amount of white solid precipitate which was collected by centrifugation, washed with H_2O and dried in air. Samples 4, 7 and 8 were prepared similar to sample 1, reaction conditions are listed in Table 1. For 7 and 8, 1 equivalent of glycerol (to TEOS) was added. In sample 4, a very small amount of white precipitate formed in the interface of two layers after standing at room temperature for 1 day, which was collected by centrifugation, washed with H_2O and dried in air.

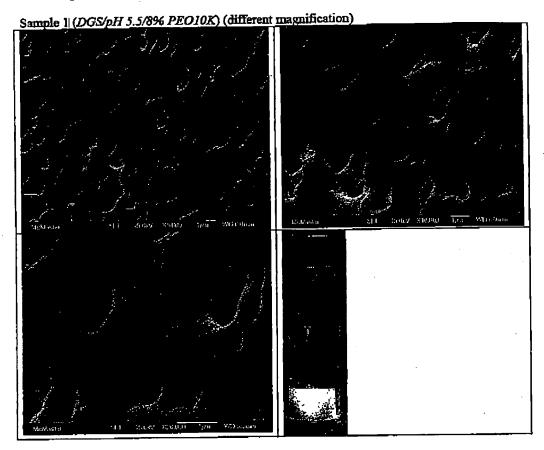
Samples 9 and 10: PGS was prepared according to the literature (Gill, J. Am. Chem. Soc. 1998, 120, 8587-8598). It was found that PGS is not fully soluble in H₂O. The mixture of PGS (5.00 g) and H₂O (5000 μ L) was sonicated at 0 °C for 20 min, and filtered; an insoluble solid (1.17 g) remained. In order to keep the ratio of Si:H₂O:PEO consistent with the DGS and TEOS system, to the filtrate was added H₂O (1420 μ L). Thus, this prehydrolyzed PGS solution contained 0.6 g (4.71) mmol of PGS in 1000 μ L. H₂O. Sample 9 and 10 then were prepared similar to sample 1 and 2, reaction conditions are listed in Table 1. For 11 and 12, 1 equivalent of glycerol (to PGS) was added to the PGS aqueous solution.

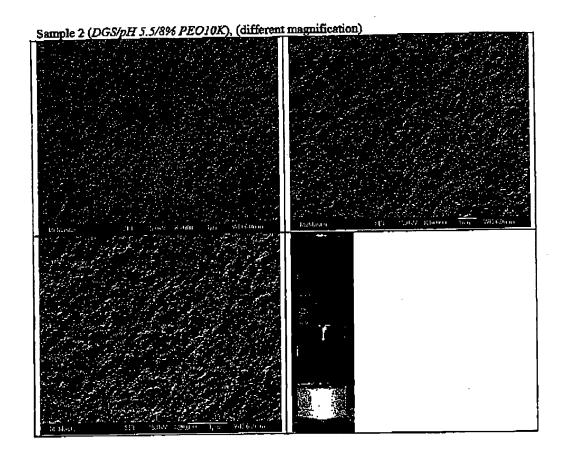
Table 1. Reaction condition for preparation of silies monolith.

Sample	DGS, g (mmol)	TEOS, g (mmol)	PGS G(mmol)	Additional glycerol g(mmol)	HEPES buffer (original 50mM), containing 16% w/v, PEO-10K	
}		ļ			pH 5.5	pH 11
1	1.00 (4.71)				1 mL	
2	1.00 (4.71)					l mL
3		0.98 (4.71)			1 mL	
4		0.98 (4.71)				1 mL
5	1.00 (4.71)			0.433(4.71)	1 mL	
6	1.00 (4.71)			0.433(4.71)		1 mL
7		0.98 (4.71)		0.433(4.71)	l mL	
8		0.98 (4.71)		0.433(4.71)		1 mL
9	1		0.60 (4.71)		l mL	

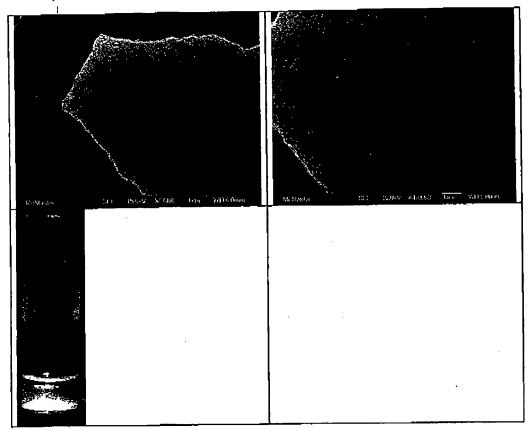
10	0.60 (4.71)			1 mL
11	0.60 (4.71)	0.433(4.71)	1 mL	
12	0.60 (4.71)	0.433(4.71)		1 mL

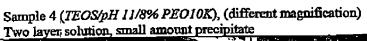
SEM images

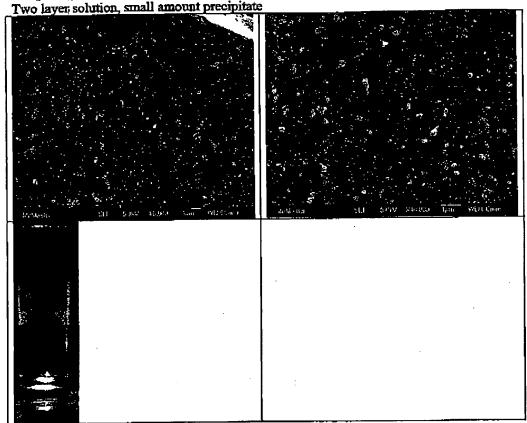


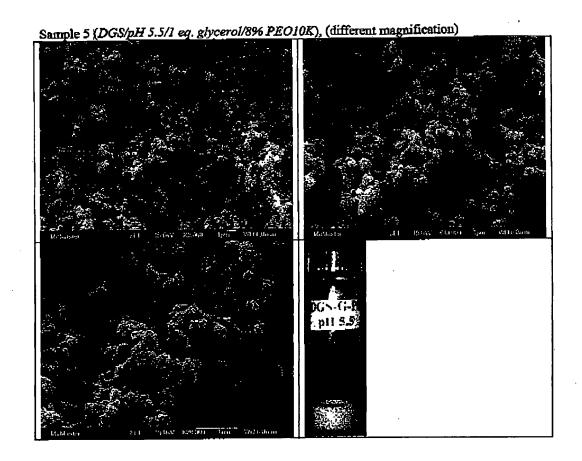


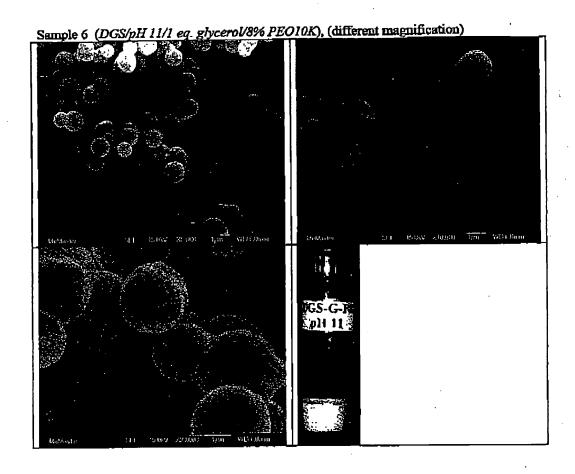
Sample 3 (TEOS/pH 5.5/8% PEO10K), (different magnification) Two layer solution, small amount precipitate



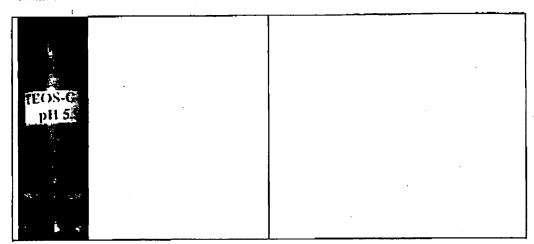




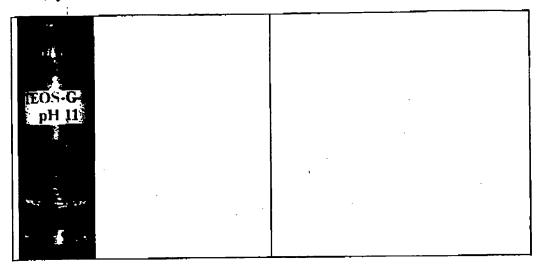


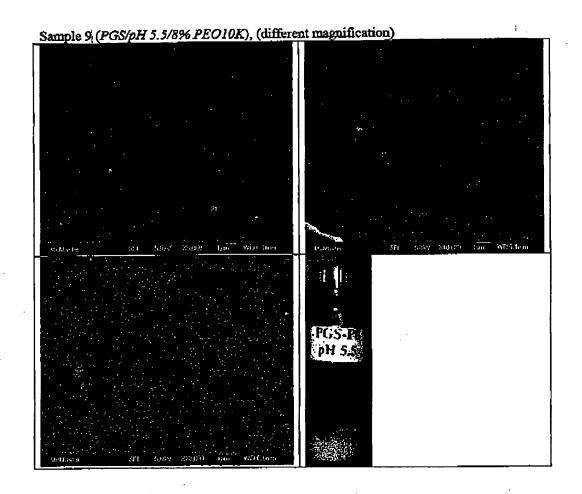


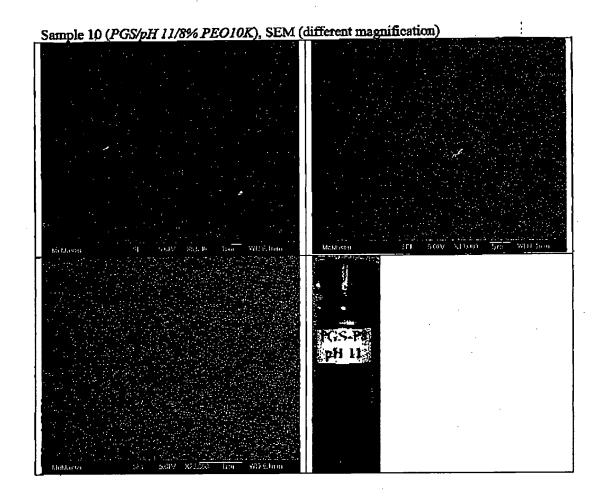
Sample 7 (TEOS/pH 5.5/1 eq. glycerol/8% PEO10K), Two layer solution, SEM is not available

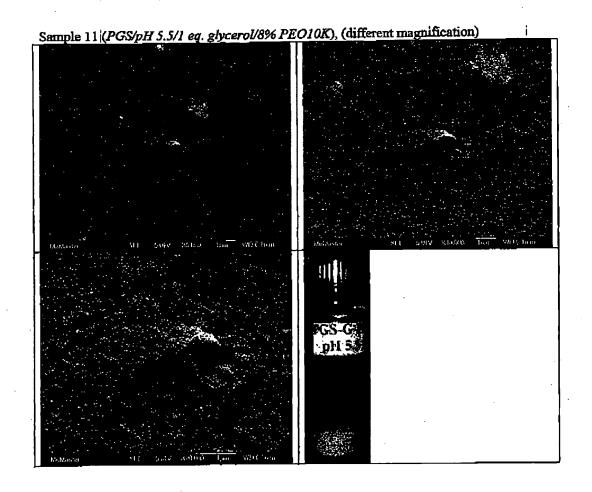


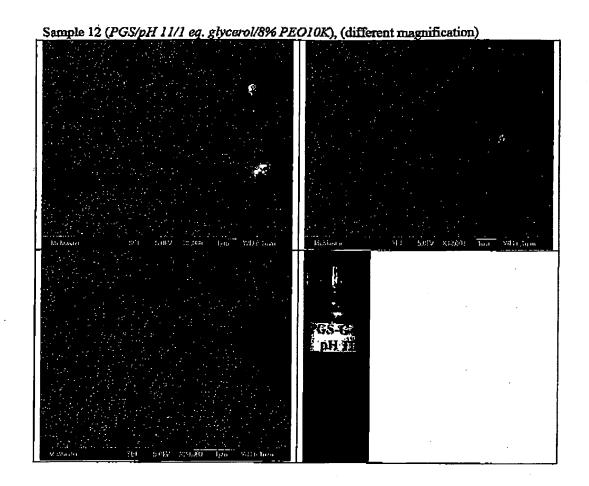
Sample 8 (TEOS/pH 11/1 eq. glycerol/8% PEO10K) Two layer solution, SEM not available











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35. F. D. Bayles and M. A. Brook, α and β -Silyl Carbenium lons, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract P-7.

34. R. Ruffolo, M. A. Brook and M. J. McGlinchey, Towards the stabilization of silenes on bimetallic clusters, 28th Organosilicon Symposium, Gainsville, Florida, April

33. D. A. Valentini, M. A. Brook, V. Bartzoka and Mark R. McDermott, Approaches to Grafting Silicones to Cellulose and Starch, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract P-10.

32.C. Le Roux, H. Yang, S. Wenzel and M. A. Brook, Using "Anhydrous" Hydrolysis to Favor Formation of Hexamethylcyclotrisiloxane from Dimethyldichlorosilane, 28th

Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract B-18. 31. V. Bartzoka, M. A. Brook, D. Valentini and Mark R. McDermott Surface Interactions Between Proteins and Silicon Polymers: Physical and Covalent Adhesion, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract P-6.

30. M.A. Brook and T. Stefanac, Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers, Illrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract P-52.

29.H. Ketelson, R.H. Petton and M.A. Brook, Polyolefin and Silicone Sterically Stabilized Colloids, Illrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract, Abstract 148.

28. M.A. Brook and T. Stefanac, Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract B-29.

27.M.A. Brook, G. McGibbon and C. Roos, Towards Silanones, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-54.

26. R. Ruffolo, L. Girard, H. Gupta, A. Decken, M.A. Brook and M.J. McGlinchey, Towards Metal Stabilized Silicon Cations, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-57.

25.M.A. Brook and M. Roth, The substitution of Electrophiles in Polymeric Systems: Surprisingly Unreactive VinyIsilanes, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-55.

24. H. Ketelson, M.A. Brook and R.H. Pelton, Post-Grafting Silicone Polymers to Vinyl Modified Colloidal Silica Spheres: Switching from an Electrostatically Stabilized Dispersion to a Sterically Stabilized Dispersion, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-30.

23. J.M. Dickson, M.A. Brook, C.K. Yeom, J. Jiang, H.K. Gupta, K. Rilling and B.J. Trushinski, Development of crosslinked oligosilystyrene pervaporation membranes for the removal of chlorohydrocarbons from water, International Congress on Membranes and Membrane Processes, (ICOM-93), Heidelberg, Germany, Sept. 1993, Abstract 5.11.

22. Jianxiong Jiang and Michael A. Brook, The Redistribution Reactions Between Cyclic Silicones and Trichlorosilanes, Canadian Soclety for Chemistry Conference,

Sherbrooke, June 1993, Abstract 540 IN E3.

- 45 -

21. Courtney Henry and Michael A. Brook, Electrophilic Addition Reactions Involving Organosilane π-Nucleophiles, Canadian Society for Chemistry Conference, Sherbrooke, June 1993, Abstract 139 IN BSP.

20. M. A. Brook, The β-effect: Modifying the Ligands on Silicon for Synthetic Control,

OMCOS 6, Utrecht, The Netherlands, August 1991, Abstract A-70.

19.G. A. McGibbbon, M. A. Brook and J. K. Terlouw, Investigation of β-Silicon Vinyl Carbenium Ions in the Gas Phase, Canadian Chemical Conference, Hamilton, June 1991, Abstract 857P.

18.C. Dallaire and M. A. Brook, The Relative Magnitude of the β-effect of Silyl, Germyl and Stannyl Groups in the Stabilization of Vinyl Cations, Canadian Chemical

Conference, Hamilton, June 1991, Abstract 702P.

17.C. Henry, R. Jueschke and M. A. Brook, Stereocontrolled Addition Reactions fo Carbon Electrophiles to Styrylsilanes, Canadian Chemical Conference, Hamilton, June 1991, Abstract 700P.

16.P. Modi, M. A. Brook and J.D. Dickson, Silicon Functionalized Styrene Polymers: Cationic Control with the β -effect, Canadian Chemical Conference, Hamilton,

June 1991, Abstract 461P.

A. Brook, D.K. Chau and W. Yu, Electrophilic Cleavage Reactions of Alkoxyhydrosilanes: The Special Case of Tartaric Acid, XXIV Organosilicon Symposium, El Paso, April 1991, Abstract 99.

14.R. H. Pelton, A. Osterroth and M. A. Brook, Steric Stabilization of Colloidal Particles,

73rd Canadian Chemical Conference, Halifax, July 1990, Abstract 741.

13.C. Dallaire and M. A. Brook, Study of the Stabilization of Vinyl Cations (β-effect) by Group 14 Metals, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.8.

12. M. A. Brook, R. Jueschke, W. Yu and A. Neuy, Electrophilic Addition Reactions of β-SilyIstyrenes: The Pursuit of a Stable β-Silyl Carbocation, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.7.

11. Michael A. Brook and S. Müller, The β-effect in Sityl Enol Ether Reactions: Trapping the Intermediate Siloxy Carbonium Ion, XXIII Organosilicon Symposium, Midland, Michigan, April 1990, Abstract B4.

10 Michael A. Brook, The β-effect: Changing the Ligands on Silicon, 17th Annual Ontario-Quebec Physical Organic Minisymposium, Quebec, Nov. 1989.

9. Michael A. Brook, Peter Hülser and Thomas Sebastian, OligotrichlorosilyIstyrenes: Highly Functionalized Silicone Precursors, 25th Canadian High Polymer Symposium, Mississauga, Canada, Aug. 23-25, 1989.

8. Michael A. Brook, Mahmud A. Hadi and Axel Neuy, An Examination of the β-Effect in an Addition Reaction with Different Ligands on Silicon, XXII Organosilicon

Symposium, Philidelphia, USA, April 1989, Abstract P-15.

Sebastian, Jefferson and Thomas Brook, Elizabeth 7. Michael A. Polytrihalosilylstyrenes: Exploiting the β-Effect for Polymer Synthesis, 3rd North American Chemical Congress, June 1988, Toronto, Canada, Abstract ORGN-50.

- 6. <u>Michael A. Brook</u> and Christina H. Kremers, *Glycol-Silicones: Polymeric Organic Reagents?*, XXI Organosilicon Symposium, June 1988, Montreal, Canada, Abstract P-20.
- Michael A. Brook, TrihalosilyIstyrenes: What happened to the α- and β-Effects, 15th Annual Physical-Organic Minisymposium, Nov. 1987, Mississauga, Canada.
- 4. Michael A. Brook and Peter Hülser, Silyl Triflates: Activators for Carbon-Carbon Bond Formation, Chemical Institute of Canada Conference, Quebec, June 1987, Abstract ORG-42-D2.
- 3. Nick Henry Werstiuk, <u>Michael A. Brook</u> and Peter Hülser, *Thermolysis of Silyl Esters: An Ultraviolet Photoelectron Study*, 14th Annual Ontario-Quebec Physical Organic Minisymposium, Nov. 1986, Toronto.
- 2. <u>Michael A. Brook</u> and Dieter Seebach, *Stabilized Cyclic Nitronates: Intermediates for More Complex Heterocycles*, 10th International Congress of Heterocyclic Chemistry, August 1985, Waterloo, Canada, Abstract G-5-54.
- T.H. Chan and Michael A. Brook, Some Uses of Trimethylchlorosilane in Organic Synthesis, Chemical Institute of Canada Conference, July 1982, Toronto, Abstract OR-18-7.

Invited Lectures: at Companies Jan. 2006 39 Wacker Chemie, Burghausen Germany Using Synthesis to Structure Interfaces: Making Silica and Silicones Biocompatible Feb. 2005 38 Xerox (XRCC) Learning from Nature: Morphological Control of Silica under Mild Conditions Dec. 2004 37 Vistikon, Jacksonville Florida Controlling biology at silicone interfaces: an integrated approach to ocular materials March 2004 36 AMO, Newport Beach, CA Controlling biology at silicone interfaces: an integrated approach to ocular materials March 2004 35 Specialty Minerals, Allentown, PA Protein-doped, controlled morphology silica monoliths and chelating silicones: Learning from nature March 2004 34 Air Products, Allentown, PA Protein-doped, controlled morphology silica monoliths: Leaming from nature March 2004 33 QLT, Vancouver An Integrated Approach to New Ocular Materials June 2003 32 Novartis Cibavision, Atlanta Georgia Stabilizing Proteins in Silica and Silicones June 2003 31 Alcon, Fort Worth Stabilizing Proteins in Silica and Silicones Apr. 2002 30 Dow Corning, Midland Michigan Controlling Enzyme Stability in Water-in-Silicone Oil Emulsions Aug. 2001 29 Genencor, Palo Alto Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability Aug. 2001 28 Sasol, Austin Texas

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An Introduction to Silanes and Silicones	Mary 2004
	May 2001
27 General Electric Corporate Research and Development, Value Not-So-Bei Silicones at Biopolymers Interfaces: A Look at Beneficial and Not-So-Bei	петісіві
Fouling	
	Mar 2001
26 NPS Pharmaceuticals Silicone:Protein Conjugates: Emulsions that Stabilize Proteins Against Denatura	tion
25 Algon Fort Worth Texas	Feb. 2001
Protein-Silicone Mixtures for Biological Cleaning Applications	= 1 0004
D4 Olava Canada	Feb. 2001
24 Glaxo Canada Silicone:protein conjugates: emulsions that stabilize proteins against denaturation	in.
22 CE Payer eyerkiisen	June 2000
Silicon at the Interface. New Surface Active Silanes and Silicones	
22 Goldschmidt Essen	June 2000
Silicon at the Interface: New Surface Active Silanes and Silicones	
21 Specialty Minerals, Allentown PA	April 2000
Chelating Silicones	_ 4000
20. CK Witco Corp. (Sistersville WV)	Dec. 1999
Looking for New Hydrophilic Substrates to Bind to Silicones	
19 Michigan Molecular Institute, Midland MI	Oct. 1999
Silicones at the Interface: What Do Biopolymers Offer	
19 Conoral Electric Waterford	Oct. 1999
Silicones at the Interface: The Benefits of Combining Silicones with Biopolymers	;
17 Unilever, Port Sunlight, UK	Sept. 1998
Working with Silicones	
16 National Starch, New Jersey	June 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Siler	ies and
Silicones	
15 Brantford Chemical Inc.	Dec. 1997
Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica a	na Orai
Protein Delivery Using Silicones	
14 Unilever, UK,	Dec. 1997
Surface Active Materials Based on Silanes, Silicones and Natural Polymers.	0 4 4007
13 Dow Corning Corp.	Sept. 1997
Silicone-Organic Copolymers the Natural Way: An Exploration of Silicone- and	Silane-
Modified Biopolymers	D4 4007
12 MacMillan Bloedel, Vancouver BC	Sept. 1997
(Reversible) Modification of Biopolymers Using Silane, Silicone and Organic C	oupling
Agents.	
11 Eastman Chemical, Kingsport, Tennessee	Aug. 1997
Wood-Plastic Composites: A Role for Organosilane and Silicone Chemistry	Feb. 1997
10 Rhône Poulenc, Lyon, France	
Two Very Different Areas of Silicone Chemistry: Hydrosilsesquioxane-p	ngui iui i
catalysts and Silicone-biopolymer copolymers	Dec. 1996
O Conoral Electric Schederienv N.I.	

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Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone:	protein
•	Sept. 1996
8 3M London, Ontario Sticking to Biopolymers: Using the Concept of Functional Group Protection in F	Orynner
Adhesion	
Rhône Poulenc, Paris, France (2 lectures)	May 1996
7 Sterically Stabilized Silica Colloids	
6 Silicone-Protein Copolymers	. ".4000
E Oceanan Akzo Oss The Netherlands	April 1993
Silicon as Mediator: Making the Drugs and Delivering Them to the Patient	
	July 1990
	April 1990
	April 1988
	Sept. 1988
1 Xerox Research Centre of Canada	•
turitant tractures et Universities	
Invited Lectures: at Universities 81 Michael A. Brook, McMaster University Undergraduate Chemistry Society N	1arch 2006.
Fighting the Imposter Syndrome as a Chemist,	
rigning the imposter Syndrome as a Chamba	Jan. 2006
80 Universite de Montpellier, II, France La silicone et la silice dans une monde biologique: le contrôle de l'interface	
La silicone et la silice aans une monae viologique, le commote au l'institute	Oct. 2004
74 Binck iniversity Chemistry Debaturous	
Controlling protein stability in silicones and silica: Synthesis of new biomaterials	Oct. 2004
78 University of Waterloo, Chemistry Department	
Controlling protein stability in silicones and silica: Synthesis of new biomaterials	ries June 200
77 McMaster University, BIMR Summer Research Program Weekly Seminar Se	ectually
Compatibilizing proteins with silica and silicones (what do graduate students	actually
do?)	Nov. 2003
76 Institute of Chemistry, Chinese Academy of Sciences, Beijing	
Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and	FIOLESII
Structure	Nov. 2003
75 Qingdao University of Technology	
Stereocontrol Using Silyl Groups: Enantioselective Reductions and	Claisen
Rearrangements	Nov. 2003
74 Huazhong University of Science and Technology	
Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and	Protein
Structure	Nov. 2002
73 Wuhan University of Technology	Nov. 2003
Protein-Doped Mesoporous Silica for Drug Screening Applications	N 0002
72 Nanjing University	Nov. 2003
Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and	Protein
Structure	M 0002
71 UWEB (University of Washington Engineered Biomaterials), Seattle,	May 2003
Stabilizing Proteins in Silica and Silicones	طفريست
70 Ian Wark Research Institute, University of South Australia, Adelaide	, south
Australia	

Michael A. Brook, Frank LaRonde, Mustafa Mohamed and Forrest Li March 2003 Stereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearrangements 69 Ian Wark Research Institute, University of South Australia, Adelaide, South Australia M. A. Brook, Dan Chen, Kui Guo, Zhang Zheng, John Brennan, and Paul Zelisko March 2003 Formation of Protein-Containing Controlled Pore Silica for Drug Discovery 68 Perspectives on Silicon (6 hours lectures during a 30 hour short course), lan Wark Research Institute, University of South Australia, Adelaide, South Australia July 2002 June 2002 67 Queensland University of Technology, Brisbane, Australia Bringing Organic Chemistry to Silicon-based Interfaces June 2002 66 University of Sydney, Australia The Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Agents and Functional Silicones. June 2002 65 Flinders University, Adelaide, Australia Stabilization of Water-in-Silicone Oil Emulsions: Surfactants Formed by the Interaction of Proteins/enzymes and Functionalized Silicones Preparing and Passivating Silica: Matching Surface Chemistry to Application June 2002 64 University of South Australia, Adelaide, Australia The Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Agents and Functional Silicones. 63 McMaster University: Undergraduate Chemistry Series March 2002 From Oral Vaccines to Breast Implants: What Happens When Proteins Meet Feb. 2002 62 Ecole Nationale Supérieure, Lyon, France Protéines chez soi: Dans les silicones et dans la silice (New homes for proteins in silicones and silica) Feb. 2002 61 University of Dresden, Germany, Institute of Polymer Research The passivation of silica and silicone surfaces using silane coupling agents and proteins. Feb. 2001 60 University of Toronto Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability Sept. 2000 59 University of Windsor Exploiting Extracoordinate Silicon: Enantioselective Reductions and Aldol Reactions Catalyzed by Chiral Amines (and some Silicone-Protein Stuff) 58 Institut National des Sciences Appliquées de Lyon July 2000 Silicium à l'Interface: Silanes et Silicones Fonctionnalisés June 2000 57 Institut Charles Sadron, Université Louis Pasteur Silicium à l'Interface: Silanes et Silicones Fonctionnalisés May 2000 56 Universite de Bordeaux I Combining Silicones and Biopolymers: Controlling the Interface (en français) May 2000 55 Ecole Normale Supérieure de Lyon Silicium à l'Interface: Silanes et Silicones Fonctionnalisés May 2000

54 University of Twente

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Silicon at the Interface: New Surface Active Silanes and Silicones	May 2000
53 University of Amsterdam	
53 University of Amsterdam Exploiting Extracoordinate Silicone: Enantioselective Reductions and Aldol Reac	LIUI IS
	June 1999
52 Kyoto University Chiral Extracoordinate Hydrosilanes Derived from Bidentate Ligands: Enantiose	lecuv e
	June 1999
ma is the leasth to of Chamistry	Julie 1999
Giffs From Nature: New Materials From Silicones and Biopolymers	May 1999
so chinana University of Hong Kong	way 1999
Gifts From Nature: New Materials From Silicones and Biopolymers	May 1999
40. University of Hond Kond	May 1999
Chim Extracordinate Silanes: Catalytic and Englished Reduction	May 1999
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Chiral Extracoordinate Silanes Derived From Histidine: Catalytic and Enantiose	necuve
Doduction	
A A A A A A A A C A C I I Divergity President's Stewardship "Over the IVY Wall"	March 1999
Confusing Nature: What does Lemon Pledge have to do with Oral vaccines:	E-h 4000
AA AL	Feb. 1999
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silan	es ano
Silicones	*
45 Brock University	Feb. 1999
Stereoselective Reduction of Ketones by Histidine: Alkoxysilane Complexes	N 4000
44 Maurit Allicon I Injugicity	Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silan	es and
Silicones	
42. Heirocrity of New Brunswick	Nov. 1998
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Silicones	Nov. 1998
42 Acadia University	
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silar	ies and
Silicones	Nov. 1998
41 Dalhousie University	
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silar	ies and
Silicones	Oct. 1998
40 McMaster University Board of Governers	OCI. 1000
Combining Silicones and Biopolymers: New Materials	Feb. 1998
39 Telemark University, Porsgrunn, Norway	(GD. 1550
Silicone Degradation Mechanisms	
38 Swedish Institute for Pulp and Paper, Stockholm and	Dec. 1997
Swedish Institute For Surface Science, Stockholm Silane and Silicone Coupling Agent Chemistry: Are Biopolymer Surface	
Silane and Silicone Coupling Agent Chemistry, Are Dioposyntal Sunday	
Siliceous Surfaces?	Oct. 1997
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Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica	and Oral
Using Silicon Chemistry III Drug Delivery: From age and a series Delivery Using Silicones	
Protein Delivery Using Silicones	Sept. 1997
36 University of British Columbia Modifying Biopolymers with Silanes and Silicones Modifying Biopolymers with Silanes and Silicones	
III - I	Jan. 1997
Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone	: protein
Hard and son slioxanes. Hydrosiisequioxano, prasinam seres y	-
copolymers	
34 McMaster Undergraduate Chemistry Club	Nov. 1996
Silicon in Biology Organosilanes as Protecting Groups: Different Approaches to the Stabilization)
of Small Molecules, Polymers, Transition Metals and Surfaces	
Université Paul Sabatier, Toulouse, France (3 lectures)	June 1996
33 Organosilanes in an Inorganic World and Inorganic Silicon in an Organic W	orld
32 What Happens When Silicon Meets Biology	
31 Stabilized Group 14 Cations	
Université de Bordeaux I, France, (3 lectures)	May 1996
30 Universidad del País Vasco, San Sebastian, Spain	June 1996
29 Organosilanes in an Inorganic World and Inorganic Silicon in an Organic W	'orld
28 What Happens When Silicon Meets Biology	
27 Stabilized Group 14 Cations	•
26 Landbouw Universiteit Wageningen, Wageningen, Netherlands	May 1996
Silicones at the Interface: Starch/Protein/Silicone Microparticles as Oral Vaccines	
25 Université de Namur, Belgium	May 1996
Stabilizing β-Cations and Protecting Transition Metals with Silicon	
24 Rijks Universiteit Utrecht	June 1995
Controlled Modification of Silica Surfaces: Polyolefin and Silicone Sterically	Stabilized
Silica Colloids	
23 Queen's University	Sept. 1994
Silicone at the Interface: What happens when it's found in unusual places	
22 McMaster University	Oct. 1993
Silicon Mediated Cope-type Cyclizations OR After one year in the Netherland	S,
what does Fokkje (fok-ya) really mean?	
21 University of Western Ontario	Sept. 1993
Silicon Mediated Cope-type Cyclizations	
20 University of Montpellier	May 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences	- 4 4 4 4 4
19 University of Toulouse	May 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences	14 4000
18 University of Bordeaux	May 1993
Silicon as Mediator. Making the Drugs and Delivering Them to the Patient	Manale 4000
17 Free University of Amsterdam	March 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences	March 1993
16 Open University, Milton Keynes, England A Silicon Transplant: From the 8-effect to Polymers (focus on silicon extracoo	
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15 University of Susse	×	March 1993
A Silicon Transplant: I	From the eta -effect to Polymers (focus c	n silicon hyperconjugation) Feb. 1993
44 University of Herech	1 †'	1 ED. 1000
Silicon Bearing Electro	on Withdrawing Groups: Exploiung the open	1 60, 1000
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11 Technische Hochse	From the β-effect to Polymers (focus o chule Darmstadt	Jan. 1999
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10 Universität Kaisers	lautem 5—— the Alefact to Polymory (footis)	
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9 ETH-Zurich (Seeba	ich Group Meeung)	105. 1000
A Silicon Transplant	From the β-effect to Polymers cientific Investigation (CINVESTAV) M	evice City (2 lectures)March 1992
Centre of Advanced Sc	Renuic investigation (CINVESTAV) with the Reffect	exico dity, (2 isotaros)maron rosa
8Polyment Materials L	Derived from the β-Effect	
7 I ne β-eπect: Modifyin	ng the Ligands on Silicon	March 1992
6 Guelph University	From the 8 offset to Pohimers	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
A SILICON Transplant	From the β-effect to Polymers	March 1991
5 SUNY Binghampto 4 Universiteit van An	neterdam	July 1990
4 Universiteit van Am	ty (Peacock Lecture Series)	Oct. 1989
3 McMaster University2 University of Western	th (Legency Ferring Selles)	Oct. 1988
1 Université de Mont	réal	Dec. 1988
1 Oniversite de moni	1001	
Courses Taught		-
2005-06		Approximate
Enrolment		_
Chem 756	Silicon Chemistry	8
Chem 2OA3	Organic Synthesis	380
Total enrolment	is about 650 – 2 sections	
Chem 4PP3	Polymer Chemistry	22
2004-05		Approximate
Enrolment		
	llowship (until Jan. 2005)	15
Chem 4G06	(Course coordinator)	. 10
Research super	VISOF	
1 Chom 1003		350
Chem 1AA3	•	555
2003-04		Approximate

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Killam Research Fello Chem 4G06 Research supervis 2	(Course co-coordinator)	22
		Approximaté
2002-03 Enrolment	•	
Chem 760	Organic Synthesis	8 !
Chem 2BA3	Organic Synthesis	42
Chem 4G06	(Course coordinator)	.8
(on Killam Fellowship	starting Jan. 2003)	!
,	<u> </u>	•
2001-02		Approximate
Enrolment	•	42
Chem 2L03	Organic Laboratory	42
Chem 2BA3	Organic Synthesis	225
Chem 1AA3	Introductory Chemistry (3 units)	
2000-01		Approximate
Enrolment		• •
Chem 760	Organic Synthesis	:8
Chem 758	Organosilicon Chemistry	:6
Chem 2L03	Organic Laboratory	18
Chem 4G6	Supervisor, Undergraduate Thesis	1
Chem 2BA3	Organic Synthesis	18
Chem 1AA3	Introductory Chemistry (3 units)	275
1999-2000	On sabbatical	
Chem 4G6	Supervisor, Undergraduate Thesis	. 2
1998-99		
Chem 760	Organic Synthesis	. 4
Chem 4G6	Supervisor, Undergraduate Thesis	2.5
Chem 4D3	Organic Synthesis	16
Chem 1AA3	Introductory Chemistry (3 units)	400
1997-98		
Chem 730a	Organic Synthesis	. 7
Chem 4G6	Supervisor, Undergraduate Thesis	2 7
Chem 4D3	Organic Synthesis	
Chem 1AA3	Introductory Chemistry (3 units)	400
1996-97		•
Chem 730a	Organic Synthesis	.7 2
Chem 4G6	Supervisor, Undergraduate Thesis	2

- 54 -

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Chem 4D3	Organic Synthesis	19
Chem 1AA3	Introductory Chemistry (3 units)	400
		,
19 95-96		10
Chem 731c	Organosilicon Chemistry	
Chem 4G6	Supervisor, Undergraduate Thesis	3
Chem 4D3	Organic Synthesis	12
Chem 1AA3	Introductory Chemistry (3 units)	400
TSM.4A2	Theme School on New Materials (2 units, Overload)	, 25
	Seminar Course	•
1994-95		40
Chem 730a	Organic Synthesis	12
Chem 4G8	Supervisor, Undergraduate Thesis	i 2
Chem 4D3	Organic Synthesis	12
Chem 1A6	Introductory Chemistry (3 units)	400
·		:
1993-94		
Chem720a, 721	Molecular Modelling -	. : 7
a special double modu	lle offered to a Masters of Teaching student, overload	(unpaid)
Chem 730a	Organic Synthesis	12
Chem 731c	Organosilicon Chemistry, Overload	10
Chem 1A6	Introductory Chemistry (3 units)	400
Chem 4G6	Supervisor, Undergraduate Thesis	. 3
Chem 4D3	Organic Synthesis	15
	Amsterdam, sabbatical leave)	•
Graduate Course	Fundamentals of Organosilicon Chemistry	. 6
	•	•
1991-92	Supervisor, Undergraduate Thesis	2
Chem 4G6		8
Chem 730d	Transition Metals/Organic Synthesis	125
Chem 2D3	Organic Chemistry, Overload	40
Chem 3D3	Organic Chemistry	
1990-91		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 730a	Organic Synthesis	12
Chem 2D3	Organic Chemistry, Overload	125
Chem 721	Organic Colloquium (Organizer)	20
Chem 3D3	Organic Chemistry	40
CHEIN 3D3	Organic Organisas	
1989-90		•
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 721	Organic Colloquium (Organizer)	20
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	Chem 3D3 Chem 731c	Organic Chemistry Organosilicon Chemistr	у	5 4	
	1988-89 Chem 4G6 Chem 720b Chem 3D3	Supervisor, Undergradu Molecular modelling Organic Chemistry	uate Thesis	1	2 0 0
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	1986-88 Chem 206	Polymer Section		3	5
	1986-87 Chem 705 Chem 4G6	Computers in organic of Supervisor, Undergrade		1	2 2
	1985-86 Chem 208 Chem 705 Chem 4G6	Polymer Section Synthesis, 4 lectures Supervisor, Undergrad	uate Thesis		5 0 1
	hesis Committees ixternal Referee	Lather Bank			
	Student Supervisor Alexandra Bartole	Institution Degree \ Dr. I. Manners	University of Toronto	F	h.D.
	2005 Jessie Zhang	Dr. R. Kluger	University of Toronto	F	h.D.
	2005 Nicola Lake 2004	Dr. J. Ralston	lan Wark Institute, University	F	h.D.
	Claire Minard-Basquin	Dr. C. Chaix	of South Australia, Adelaide École Normale Supérieure	F	h.D.
	Sandjeevi-Ranganathan	Dr. C. Pichot S. Dr. R. Whitney,	Lyon		
	-	Dr. W. Baker	Queen's University	F	h.D.
	1998 Matuana-Molanda, L. 1997	Dr. J. Balatinecz	University of Toronto	F	h.D.

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Vlad, FI.	Dr. A. Rudin	University of Waterloo	Ph.D.
1997 Jihai Ma	Dr. T. Tidwell	University of Toronto	Ph.D.
1996 Andrea Dalacu	Dr. M. F. Richardson	Brock University	M.Sc.
1994 Umesh R. Parshotam	Dr. Kim Baines	University of Western Ontario	Ph.D.
1993 Flores Rutjes 1993	Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
1433	Prof. Nico Speckamp		
Lucy Lolkema 1993	Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
1993	Prof. Nico Speckamp	•	
Wim Jan Koot 1993	Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
1885	Prof. Nico Speckamp		
Louis Plamondon	Dr. J. Wuest	Université de Montréal	Ph.D.
1988	Dr. S. MacLean	University of Toronto	۳h.D.
Peter Tai Wah Cheng 1988	DI, G. MacLean	Oniversity of Toronto	11.00
McMaster			
Student Supervisor	Degree Year		
Student Supervisor Greg Bahun	Dr. A. Adr		Ph.D
Student Supervisor Greg Bahun Xiangchun Yin	Dr. A. Adr Dr. H. Sto	ver ·	þъD.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther	Dr. A. Adr Dr. H. Stov Dr. J. Valli	ver iant	Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Han	ver iant rison	Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Han Dr. M. J. N	ver iant rison AcGlinchey	Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Han Dr. M. J. N Dr. R. H. F	ver iant rison AcGlinchey Pelton	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr	ver iant rison AcGlinchey Pelton rononv	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrieme Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN	ver iant rison AcGlinchey Pelton rononv Tulty	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D M.Sc.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr	ver iant rison AcGlinchey Pelton rononv Tulty	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J.M. I	ver iant rison AcGlinchey Pelton rononv Julty Dickson	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN	ver iant rison AcGlinchey Pelton rononv Julty Dickson	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D M.Sc.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. H Dr. A. Adr Dr. J. McN Dr. J. M. I	ver iant rison AcGlinchey Pelton rononv Rulty Dickson	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J.M. I	ver iant rison AcGlinchey Pelton rononv Rulty Dickson	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. H Dr. A. Adr Dr. J. McN Dr. J. M. I	ver iant rison AcGlinchey Pelton rononv lulty Dickson man	Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D. Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu 2005 Sanela Martic 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Han Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J. M. E Dr. J. Bren Dr. R. H. F	ver iant rison AcGlinchey Pelton rononv lulty Dickson man Pelton	Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu 2005 Sanela Martic 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J. Bren Dr. R. H. F Dr. M. Bro	ver iant rison AcGlinchey Pelton rononv lulty Dickson man Pelton rook s as Alternative Matrices for Ma	Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu 2005 Sanela Martic 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Han Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J. Bren Dr. R. H. F Dr. M. Bro Silicon-Based Materials Application	ver iant rison AcGlinchey Pelton rononv Iulty Dickson man Pelton rook s as Alternative Matrices for Mass	Ph.D.
Student Supervisor Greg Bahun Xiangchun Yin Tina Guenther Adrienne Pedrich John Kaldis Ju Zhang Rahime Benhabbour Sreedhar Cheekoori Ken Rilling 2005 Travis Besanger 2005 Yaling Xu 2005 Sanela Martic 2005	Dr. A. Adr Dr. H. Stov Dr. J. Valli Dr. P. Harr Dr. M. J. N Dr. R. H. F Dr. A. Adr Dr. J. McN Dr. J. Bren Dr. R. H. F Dr. M. Bro	ver iant rison AcGlinchey Pelton rononv Iulty Dickson man Pelton rook s as Alternative Matrices for Mass	Ph.D.

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	Dr. John Valliant	Ph.D.
Bola Sogbein 2005		M.Sc.
Ilena Dumbrava 2005	Dr. W. Leigh	
Amro Ragheb 2005	Dr. M. A. Brook	Ph.D.
Controlling Protein-Silicone I	nteractions by the Modification of Silicone Elast	omers with
Poly(ethylene oxide) Paul Zelisko 2004	Dr. M. A. Brook	Ph.D.
The interaction of proteins wi	th functionalized silicones	
Masaaki Amako 2004	Dr. M. A. Brook	Ph.D.
	nes and Late Transition Metal Complexes	
Tom Owens 2004	Dr. W. J. Leigh	Ph.D.
Jiahong Tan 2004	Dr. J. Brash	Ph.D.
Jacques Archambeault 2002	Dr. J. Brash	Ph.D.
Maggie Wang 2002	Dr. R. F. Childs	M.Sc.
Guodong Zheng 2002	Dr. H. D. H. Stover	Ph.D.
Xioashong Lu 2001	Dr. J. Warkentin	Ph.D.
Mustafa Mohamed 2001	Dr. M. A. Brook	Ph.D.
Sonya Balduzzi 2001	Dr. Michael Brook	Ph.D.
Reactive Stlyl Protecting Gro	uns	
Brandi Meeks 2001	Dr. H. Shcardown	M.Sc.
Ahmed Alzamly	Dr. M. A. Brook	Ph.D.
withdrawn		
Frank J. LaRonde 2000	Dr. M. A. Brook	Ph.D.
C_2 -symmetric ligands		
Sudarshi Regismond 2000	Dr. F. Winnik	Ph.D.
Rodica Stan 1999	Dr. Michael Brook	Ph.D.
	and Silanes for Interface Control	
Vasiliki Bartzoka 1999	Dr. Michael Brook	Ph.D.

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Silicone Protein Interactions Mark Stradiotto	Dr. Michael Brook	Ph.D.
1999	(co-supervised with with M. J. McGlinchey)	
The Dynamics and Reactivity of η^1 -Inden	yl Complexes	-l ~
Christine Braderic	Dr. W.J. Leigh	Ph.D.
1998		
Karen Moffat	Dr. H. Stöver	Ph.D.
	———	
1998	Dr. M. McGlinchey	Ph.D.
Suzie Rigby	DI, IVE MICOIMIONO	
1997	D. A. Libebonale	Ph.D.
Stephen Urquhart	Dr. A. Hitchcock	1 11.0.
1997		- tion of
Paul Charpentier Metallocene-catalyz	ed semi-batch and continuous polymenz	auon oi
ethylene		
outy to the	Dr. A. Hamielec	Ph.D.
1997		ŀ
1997	Dr. M. A. Brook	
was a second second albertage	as as Possible Proguesors for Transition	n Metal
Ralph Ruffolo Silanes and Allyisilari	es as Possible Precursors for Transition	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Metal-stabilized Silylium	D. M. A. Donath	Ph.D.
lons	Dr. M. A. Brook	5 1.D.
1997		
	Dr. M.J. McGlinchey	1
Howard Ketelson	Dr. M. A. Brook	Ph.D.
1996		
1950	Dr. R. H. Pelton	İ
The Colloidal Stability and Surface		
	Dr. M. A. Brook	M.Sc.
David Valentini	DI. W. A. DIQUK	
1996 <u> </u>		
Silicon-Modified Starch Composites		<u> </u>
Courtney Henry	Dr. M. A. Brook	Ph.D.
1994		
Evoloring the Synthetic Utility of Vir	yldichlorosilanes and Vinylarylsilanes	
Graham McGibbon	Dr. J. K Terlouw	₽h.D.
1994		
	Dr. M. A. Brook	M.Sc.
Tom Stefanac	DI. W. A. DIOOK	11.23
1994		s and
	rization: Functionalized Homopolyme	S dilu
Copolymers	·	1.0
Mike Roth	Dr. M. A. Brook	M.Sc.
1994		
Controlled Formation of New Si-bas	sed Materials	
Sengen Sun	Dr. P. Harrison	₽h.D.
1994		
I J U T		,

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1994 Carol Dallaire Dr. M. A. Brook Ph.D. 1992 Study of 1-Methylated-2-trimethylsilyl Cations: An Examination of the β-Effect is Silyl, Germyl and Stannyl Groups Dr. M. A. Brook M.Sc.	for
Carol Dallaire 1992 Study of 1-Methylated-2-trimethylsilyl Cations: An Examination of the β-Effect is Silyl, Germyl and Stannyl Groups	for
Study of 1-Methylated-2-trimethylsilyl Cations: An Examination of the p-Errect Silyl, Germyl and Stannyl Groups	
Silyl, Germyl and Stannyl Groups	
Silyl, Germyl and Stannyl Groups	
Germyl and Stannyl Groups	C.
	.
Andrea Osterroth Dr. M. A. Brook M.Sc	
1991	
Dr. R.H. Pelton	
Poly(methyl methacrylate) Sterically Stabilized by Silicone Meifang Yu. Dr. M. A. Brook M.S.	r
Werreng Yu	U.
1991	
The Roles of Ligands on Silicon Thomas Separtian Dr. M. A. Brook M.S.	C
Monas Sepasian	V.
1990	
Trichlorosilylstyrene Oligomers	
Defense Only Fd No Dr. H. Jain, Business Ph. C	D
Ed 149	-
2005 Young-Min Kim Dr. J. MacGregor, Chem. Eng. Ph.L	D.
V = = 1. 2 · · · · · ·	•
2005 Damian Jankowicz (Chair) Dr. S. Becker, Psychology Ph.	D.
Dament outlier (one)	_,
2004 Michelle Vosburgh (Chair) Dr. J. Weaver, History Ph.	D.
2004	
Beata Gajewski (Chair) Dr. M. Jordana, Medical Sciences Ph.I	י .ם
2004	
Tim Jacobs (Chair) Dr. J. Ferns, English Ph.I	D.
2003	_ •
Lina Liu Dr. H. Sheardown, Chem. Eng. M.S	iç.
2003	
Abhaya Kulkami Dr. M. Boyle Ph.I	D.
2003	
Millman, J. (Chair) Dr. D. Andrews Ph.I	D.
2003	
Pauli Kavalakatt Dr. H. D. H. Stöver, Chem.	
M,Sc. 2002	
Youqing Shen Dr. S. Zhu, Chem. Eng. Ph.I	D.
2001	
Nekmohamed Manji Dr. C. Nahmias, Med. Phys.	
Ph.D. 2001	
Linda Li Dr. R. Pelton, Chem. Eng.	
M.Sc. 2001	

- 60 -

lya Matkovic	Dr. K. Dunbabin, History	Ph.D.
2001	•	Ph.D.
Bruce Wilson	Dr. B. Baetz, Civil Eng.	1 (1.0.
2001 Brandi Meeks	Dr. H. Sheardown, Chem. Eng.	M.Sc.
2001 Leslie Ritchie	English	Ph.D.
2000		
Stevens, Ronald (Chair)	Dr. Weitz, Med. Sci.	Ph.D.
2000 Downey, Jeff	Dr. H. Stöver,	Ph.D.
2000	D- A Ummole	M.Sc.
Martin, W.	Dr. A. Hrymak	141.00.
1999 MacKay, Geoff (Chair)	Dr. G. Wright,	Ph.D.
1999	Dr. M. Elbastawi, Mech. Eng.	Ph.D.
Arida, F. (Chair) 1998	DI. W. CIDESCHI, MOON, ENG.	
Marriott, Michael (Chair)	Dr. B. Milliken, Psychology	
Ph.D.	1998	DF D
Wu Chen, Iris (Chair)	Dr. M. Blajchman, Medical Sciences	Ph.D.
1998 Barker, S.	Dr. G. Purdy, Mat. Sci. & Eng.	Ph.D.
1997	•	
Wauben, I.	Dr. S. Atkinson, Nutrition	Ph.D.
1997	Dr. Muller, Biology	Ph.D.
Marc Webster 1996	D). Midner, Diology	
Hua Guo	Dr. A. Hamielec	Ph.D.
1995	•	
Hui Teng Er	Dr. J. Warkentin	M.Sc.
1995	D- W. Ohen Binehomistry	
Naomi Laing	Dr. W. Chan, Biochemistry 1994	
Ph.D.	Dr. L. P. Niles, Neurosciences	Ph.D.
Darryl Scott Pickering 1992	Dr. L. F. Mico, Mairodaidhea	
Greg Sluggett	Dr. W. J. Leigh	Ph.D.
1993		
Nien Nguyen	Dr. W. J. Leigh	M.Sc
1991 William Mills	Dr. B. E. McCarry	M.Sc
1990	Di. D. E. Modally	
J. Paul Santerre	Dr. J. Brash, Chemical Engineering	Ph.D.
1990		

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Char	les Younger	Dr. R.A. Bell		M.Sc.
19	-	Dr. N.H. Werstiuk		Ph.D.
withdr				
	M. Cameron	Dr. D.B. MacLean		M.Sc.
19	90		Caionas	Ph.D.
	el B.M. Mangion 90	Dr. G.P. Johari, Materials	Science	
	ard Perrier	Dr. M. J. McGlinchey		Ph.D.
	89	Dr. J. Warkentin		M.Sc.
	ougtas McCallion 86	Dr. J. Warkenun		11
Comt	nittee and Association Activity	<u> </u>		V
McMa	ster Committees	Position	Mambar	Year 2005
De	an's Advisory Committee	Committee	Member Member	2005-
	ence/Engineering Promotion/Te	nure Committee	Melline	2000-
2008	aching and Learning Grants Ass	essment Committee	Member	2005
i e: Inti	ellectual Property Board		Member	1998-
2003				0000
Se	lection Committee, Associate De	ean of Science	Member	2002
	culty of Science Undergraduate	Curriculum and Calendar	Member	1998,
2000		nittoo	Member	1998
	atth Sciences Admissions Comm Master Patent Board	milee	Member	
Dre	esident's Task Force on Support	of Research at McMaster	Member	
Se	lection Committee, Dean of Scie	ince	Member	
Ďe	an's Advisory Committee on Co	mputing	Member	
Fa	culty Health Sciences Graduate	Admissions/Study Committe	æ	Member
	aduate Curriculum and Policy Co	ommittee	Member	1994-7
Sa	lary Anomaly Adjustment Comm	ittee Faculty of Science	Member	
Gr	aduate Reviewing Committee Fa	aculty of Science	Member	
Hir	ing Committee, CIS Science Co	ordinator ·	Member	
Ad	Hoc Committee on Research a	nd Senior	Member	1989
U	ndergraduate Computing Resea	rch Needs	Member	1988-89
Mo	Master-IBM Cooperative Projec		Member	1900-09
	rtmental Committees		h d a a a fa	0005
De 2006	partmental Advisory Committee		Member	∠005-
	nomaterials Committee (CFI)		CoChair	2005
Un	dergraduate Reviewing Commit	tee	Member	
lm	plementation of CHEM3LI3		Member	2003

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Departmental Advisory Committee	Member	2001-
2002	Member	2001-
Computing Facility Committee	Member	250.
2002	CoChair	2001-
Accreditation Committee	5557.12	
2002	Chair	2000-02
Undergraduate Curriculum and Calendar Committee	Member	2000-01
Freshman Committee Graduate Curriculum Committee	Member	
Undergraduate Curriculum and Calendar Committee	Chair	1998
Year One Frosh Week (gave lecture)		1998
Chemistry Computer Committee	Member	1998
Organic Comprehensives Coordinator	Chair	1996-98
Teaching Associates Coordinator	Chair	1996-97
Chemistry Chair Selection Committee	Member	1995
Departmental Advisory/P&T Committee	Member	1994-96
Departmental Seminars	Chair	
X-ray Facility Users Committee	Member	1993-94
Graduate Curriculum Committee	Member	
Comprehensive Exam Coordinator	Chair	1992
Facilities Committee		1991-92
Departmental Advisory Committee		1989-93
Departmental Computer Users Committee	Member	
X-ray Facility Users Committee	Member	
Selection of X-Ray Facility Manager	Member	
Graduate Recruiting	Chair	
Graduate Reviewing	Chair	
IBM Submission for Masters in Computer Chemistry		1986-88
Graduate Curriculum	Member	
Undergraduate CIC Student Advisor	Chair	
Chemistry Club Faculty Advisor	Chair	
Safety Committee		1985-86
Facilities Committee	Member	1985-87

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